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CLAIMS

The invention claimed is:

- 1. A method to treat neovascular disease of the eye, comprising:
- administering a targeted photosensitizing compound which selectively binds to abnormal endothelium that lines or composes neovasculature tissue; and
 - illuminating the neovasculature tissue with light for a period of time sufficient to activate the photosensitizing compound thereby causing damage to neovasculature tissue.
 - 2. The method of claim 1, wherein said light is non-laser light.
 - 3. The method of claim 1, wherein said light is laser light.
 - 4. The method of claim 1, wherein the neovasculature tissue is present in retina, choroid or both.
 - 5. The method of claim 1, wherein the treated neovascular disease is diabetic retinopathy.
 - 6. The method of claim 1, wherein the treated neovascular disease is macular degeneration.
 - 7. The method of claim 1, wherein the treated neovascular tissue arises from tumors of the eye.
 - 8. The method of claim 1, wherein said tumors are benign.
 - 9. The method of claim 1, wherein said tumors are malignant.
 - 10. The method of claim 9, wherein said tumors are malignant uveal melanomas.
 - 11. The method of claim 1, wherein the targeted photosensitizing compound is bound to a first component of a bindable pair and wherein a second component of the bindable pair is selected from the group consisting of: receptor present on abnormal endothelium; ligand bindable to receptor present on abnormal endothelium; antigen present on abnormal endothelium; and antibody bindable to antigen present on abnormal endothelium.

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- 12. The method of claim 11, wherein the targeted photosensitizing compound is incorporated into a liposomal preparation.
- 13. The method of claim 11, wherein the ligand is selected from the group consisting of: the ED-B domain of fibronectin; antibody specifically elicited to ED-B domain of fibronectin; VEGF; VEGF receptor; and ανβ3 integrin receptor.
- 14. The method of claim 1, wherein the targeted photosensitizing compound is bound to a receptor composition that mimics a receptor present on abnormal endothelium.
- 15. The method of claim 14, wherein the targeted photosensitizing compound is incorporated into a liposomal preparation.
 - 16. The method of claim 1, wherein the targeted photosensitizing compound is bound to a bi-specific antibody construct that further comprises both a ligand component and a receptor component.
 - 17. The method of claim 16, wherein the targeted photosensitizing compound is incorporated into a liposomal preparation.
 - 18. The method of claim 1, wherein the photosensitized neovasculature is illuminated for at least 4 minutes.
 - 19. The method of claim 1, wherein the photosensitized neovasculature is illuminated for at least 20 minutes.
 - 20. The method of claim 1, wherein the photosensitized neovasculature is illuminated for at least 1 hour.
 - 21. The method of claim 1, wherein the photosensitized neovasculature is illuminated for at least 24 hours.
 - 25 The method of claim 1, wherein the neovasculature tissue is treated with a total fluence of light irradiation from between about 240 J/cm² to about 900 J/cm².
 - 23. The method of claim 1, wherein the non-laser light source is a light emitting diode.
 - The method of claim 1, wherein the non-laser light source is ambient light.
 - 25. A method to treat neovascular disease of the eye, comprising:

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- administering a first targeted photosensitizing compound which selectively binds to a first targeted tissue; and
- administering a second targeted photosensitizing compound which selectively binds to a second targeted tissue; and
- illuminating the first and second targeted tissues with non-laser light for a period of time sufficient to activate said first and second photosensitizing compounds thereby causing damage to said first and second targeted tissue.
- The method of claim 25, wherein said first targeted tissues is abnormal endothelium that lines or composes neovasculature tissue; and said second targeted tissue is a tumor antigen.
 - 27. The method of claim 26, wherein said first targeted photosensitizing compound comprises a ligand selected from the group consisting of: the ED-B domain of fibronectin; antibody specifically elicited to ED-B domain of fibronectin; VEGF; VEGF receptor; and ανβ3 integrin receptor.
 - 28. A kit to treat neovascular disease of the eye, comprising a targeted photosensitizing compound and instructions teaching a method according to claim 1.
 - 29. A kit according to claim 28 wherein the targeted photosensitizing compound binds to a first component of a bindable pair and wherein a second component of the bindable pair is selected from the group consisting of: receptor present on abnormal endothelium; ligand bindable to receptor present on abnormal endothelium; antigen present on abnormal endothelium; and antibody bindable to antigen present on abnormal endothelium.
 - 30. A kit according to claim 29, wherein the targeted photosensitizing compound is incorporated into a liposomal preparation.
 - A kit according to claim 29, wherein the ligand is selected from the group consisting of: the ED-B domain of fibronectin; antibody specifically elicited to ED-B domain of fibronectin; VEGF; VEGF receptor; and ανβ3 integrin receptor.
 - 32. A kit according to claim 28, wherein the targeted photosensitizing compound binds to a receptor composition that mimics a receptor present on abnormal endothelium.

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- 33. A kit according to claim 32, wherein the targeted photosensitizing compound is incorporated into a liposomal preparation.
- 34. A kit according to claim 28, wherein the targeted photosensitizing compound binds to a bi-specific antibody construct that further comprises both a ligand component and a receptor component.
- 35. A kit according to claim 34, wherein the targeted photosensitizing compound is incorporated into a liposomal preparation.
- 36. A method of instructing a person to treat neovascular disease of the eye, comprising instructing a person to conduct a method according to claim 1.
- 37. A method of instructing a person to treat neovascular disease of the eye, comprising instructing a person in the use of the kit of claim 28.